On August 27, 2011 Hurricane Irene severely damaged and breached NC 12 at various locations including four (4) breaches at the Pea Island National Wildlife Refuge. In order to reconnect the road for traveling public and facilitate recovery efforts, the Department of Transportation is proposing a 650 foot temporary bridge over the new cut channel (200 +/- feet wide), 1,300 linear feet of sheet piling, and 1,600 linear feet of sand bags and 10,000 +/- cubic yards of local sand from Oregon Inlet Groin site.

The temporary bridge is warranted, since ebb flow in the 200 foot new cut channel is around 10 feet per second and depth of flow is approximately 10 feet. It is anticipated that the temporary bridge will be used approximately 18 months. In order to erect the temporary bridge, a 200 foot work bridge may be required for the construction equipment. In order to stabilize the roadway embankment and keep the end bents of the temporary bridge and the embankment fills within existing DOT right of way and minimize the impact to the coastal wetlands, sheet piling and sand bags are recommended, as noted in the attached plans.

The NCDOT has coordinated with the Pea Island National Wildlife Refuge and received a Special Use permit for this repair and for the sand source from the Oregon Inlet Groin site. The existing damaged asphalt will be removed and temporarily stored at a nearby borrow pit (upland location), until an approved upland waste site is determined.

and/or Avon site

# APPLICATION for Major Development Permit



(last revised 12/27/06)

#### North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applica	nt/ Landowner Inf	orm	ation						
Business Name			The second secon	Project Name (if	applicable	e)		-	
NCDO	٢			NC 15	Repo	air Pea	Isla	ind	
Applicant 1: First Name				NC 12 Repair Pea Island Last Name					
Jerry				Jenn	ings				
Applicant 2: First Name		МІ		Last Name			And the second s		
If additional applicants, plea	se attach an additional pag	ge(s) v	with names l	listed.				to the second se	
Mailing Address			Maria de la companione de	РО Вох	City		State		
113 AIRPORT	DRIVE, SU Country USA	ITE	100		ED	EUTON	1 12	it	
ZIP	Country		Phone No.	I		FAXI			
27932	USA		257-4	82-7977	ext.		-	-	
Street Address (if different fr	om above)			City	State	9	ZIP		
Email  JJENNINGS	5 @, NCDOT.	Go	<b>V</b>						
2. Agent/Contracto	or Information								
Business Name		Part Control C		-	TOTAL THE SECOND		nerion-manifester, security and		
Agent/ Contractor 1: First Na	ame	MI		Last Name	W. Tolk and the second				
Agent/ Contractor 2: First Na	ame	MI		Last Name					
Mailing Address		Anna anna anna anna anna anna anna anna		РО Вох	City			State	
ZIP	·	Phor	ne No. 1	- ext.		Phone No. 2	-	ext.	
FAX No.		Cont	ractor#			J			
Street Address (if different fro	om above)			City	State		ZIP	-	
Email			,				<u> </u>		

<Form continues on back>

3. Project Location	MEN AND THE STATE OF THE STATE						
County (can be multiple)	Street Address		- Marie - Mari		State Rd. #		
DARE	NOIZ				NC 12		
Subdivision Name		City		State	Zip		
all		PEA I	SLAND WILDLIFE	NC	- 27968		
Phone No.			Lot No.(s) (if many, attach	additional p	age with list)		
ext.							
a. In which NC river basin is the projec	t located?		b. Name of body of water nearest to proposed project				
N/A			ATLANTIC OCCUN PAMLICO SOUND				
c. Is the water body identified in (b) above, natural or manmade?			d. Name the closest major water body to the proposed project site.				
□Natural □Manmade □Unknown			ATLANTIC OCEAN				
e. Is proposed work within city limits or planning jurisdiction?			f. If applicable, list the planning jurisdiction or city limit the proposed work falls within.				
			PEA ISLAND WILDLIFE REFUGE				
4. Site Description							
a. Total length of shoreline on the tract	` '		b. Size of entire tract (sq.ft.)				
2,400 feet	÷		NA				
c. Size of individual lot(s)			d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level)				
(If many lot sizes, please attach additional page with a list)			,	,	VARIES		
e. Vegetation on tract							
TUDITAL PLANS							
TYPICAL ROADSI							
f. Man-made features and uses now on	tract						
NC 12 PUBLIS TRANSPORTATION							
Dr 15 Ward	TRANSPOR	TAT	104		:		
g. Identify and describe the existing lan	d uses <u>adjacent</u> to the	e propose	d project site.				
PEA ISLAND W	LDLIFE &	EFUE	t				
h. How does local government zone the				istent with t	he applicable zoning?		
The rest about 1997 of the Larie and	, trade.	'	<ul> <li>i. Is the proposed project consistent with the applicable zoning?</li> <li>(Attach zoning compliance certificate, if applicable)</li> </ul>				
NA			□Yes □No □NA		,		
j. Is the proposed activity part of an urb	an waterfront redevel	opment pr	oposal?	□Yes ⊾	HV0		
k. Has a professional archaeological as	sessment been done	for the tra	act? If yes, attach a copy.	□Yes ℃	Mo □NA		
If yes, by whom?							
I. Is the proposed project located in a N National Register listed or eligible pro		storic Dist	rict or does it involve a	DY'es [	No []NA		

<Form continues on next page>

m. (i) Are there wetlands on the site?  (ii) Are there coastal wetlands on the site?  (iii) If yes to either (i) or (ii) above, has a delineation been conducted?  (Attach documentation, if available)  n. Describe existing wastewater treatment facilities.
(iii) If yes to either (i) or (ii) above, has a delineation been conducted?  (Attach documentation, if available)  □ Yes □ No  □ No  □ No  □ No  □ No
n. Describe existing wastewater treatment facilities.
NIA
o. Describe existing drinking water supply source.
p. Describe existing storm water management or treatment systems.
$\sim$ / $\sigma$
5. Activities and Impacts
a. Will the project be for commercial, public, or private use?
b. Give a brief description of purpose, use, and daily operations of the project when complete.
b. The a bird accomplicit of purpose, and daily operations of the project when complete.
NC 12 PROVIDES PUBLIC TRANSPORTATION ACCESS TO THE MAINLA
C. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each of equipment and where it is to be stored.
<ul> <li>Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each of equipment and where it is to be stored.</li> </ul>
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<Form continues on back>

6	Additional Information
pe	addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application ackage to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application struction booklet on how to properly prepare the required items below.
a.	A project narrative.
b.	An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.
c.	A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.
d.	A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
e.	The appropriate application fee. Check or money order made payable to DENR.
f.	A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.
	Name Phone No.  Address PEA TSLAND WILDLIFE REFUGE
	Name Phone No. Address
	Name Phone No. Address
h,	Signed consultant or agent authorization form, if applicable.
	Wetland delineation, if necessary.
	A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner)
к.	A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.
7.	Certification and Permission to Enter on Land
	understand that any permit issued in response to this application will allow only the development described in the application. ne project will be subject to the conditions and restrictions contained in the permit.
er m	certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to the term on the aforementioned lands in connection with evaluating information related to this permit application and follow-up conitoring of the project.
	urther certify that the information provided in this application is truthful to the best of my knowledge.
Da	ate 9/2/11 Print Name David 3. Chang
	ente 9/2/11 Print Name David 5. Chang  Signature David 4. Chang
abla	ease indicate application attachments pertaining to your proposed project.  DCM MP-2 Excavation and Fill Information  DCM MP-3 Upland Development  DCM MP-4 Structures Information

#### Form DCM MP-2

## **EXCAVATION** and FILL

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. All values should be given in feet.

	Access Channel (NLW or NWL)	Canal	Boat Basin	Boat Ramp	Rock Groin	Rock Breakwater	Other (excluding shoreline stabilization)
Length							370'
Width							50'
Avg. Existing Depth					NA	NA	
Final Project Depth					NA	NA	

	Amount of material to be excavated from below NHW or NWL in cubic yards.	b.	Type of material to be excavated.
	<ul><li>(i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.</li></ul>	d.	High-ground excavation in cubic yards.
	□CW □SAV □SB □WL □Mone		
	(ii) Describe the purpose of the excavation in these areas:		
	,		
•	DISPOSAL OF EXCAVATED MATERIAL		□This section not applicable
	Location of disposal area.	b.	Dimensions of disposal area.
	NIA		
	(i) Do you claim title to disposal area?  ☐Yes ☐No ☐NA	d.	(i) Will a disposal area be available for future maintenance?  ☐Yes ☐No ☐NA
	(ii) If no, attach a letter granting permission from the owner.		(ii) If yes, where?
	(i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB),	f.	(i) Does the disposal include any area in the water?  ☐Yes ☐No ☐NA
	or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.    CW   SAV   SB		(ii) If yes, how much water area is affected?
	□WL □None		
	☐ WL ☐ None  (ii) Describe the purpose of disposal in these areas:		

3. SHORELINE STABILIZATION (If development is a wood groin, use MP-4 – Structures)	☐This section not applicable
a. Type of shoreline stabilization: b.  Bulkhead Riprap Breakwater/Sill Other:	Length: 1,600 Sand bag Width: 15'
c. Average distance waterward of NHW or NWL: d.	Maximum distance waterward of NHW or NWL:
e. Type of stabilization material:  5 and bag, sheet Pile	<ul> <li>(i) Has there been shoreline erosion during preceding 12 months?</li> <li>☑Yes ☐No ☐NA</li> <li>(ii) If yes, state amount of erosion and source of erosion amount information.</li> </ul>
g. Number of square feet of fill to be placed below water level. h.  Bulkhead backfill Riprap  Breakwater/Sill Other	Variable, Hurricane Irene Type of fill material.  Sand
i. Source of fill material.  Oregon Inlet Groins	MND/OR AVON PIT
4. OTHER FILL ACTIVITIES (Excluding Shoreline Stabilization)	□This section not applicable
a. (i) Will fill material be brought to the site? Yes No NA b.  If yes,  (ii) Amount of material to be placed in the water Z,100 C.Y.  (iii) Dimensions of fill area 370 x 50'  (iv) Purpose of fill  Roadway Smbankment to  Restore NC 12 with Stable  3 ide slope	(i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.    CW   Soo   SAV
5. GENERAL	
a. How will excavated or fill material be kept on site and erosion controlled?  Embarkment Stabilized with Sheet Piling and sand bags  c. (i) Will navigational aids be required as a result of the project?  □Yes MNo □NA  (ii) If yes, explain what type and how they will be implemented.	What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?  Crane, Bull Dezer, excavator, of Construction agus pment.  (i) Will wetlands be crossed in transporting equipment to project site? □Yes ☑No □NA  (ii) If yes, explain steps that will be taken to avoid or minimize environmental impacts.
	David 5. Chang  Dicant Name
Repair NC12 at pea Island  Project Name  App	West A. Chang Dicant Signature

#### Form DCW MP-5

## BRIDGES and GULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1.	. BRIDGES		☐This section not applicable
a.	Is the proposed bridge:  ☐Commercial ☐Public/Government ☐Private/Community	b.	Water body to be crossed by bridge: New Inleton Pea Island
C.	Type of bridge (construction material):  Temp Steel Mary bridge	d.	Water depth at the proposed crossing at NLW or NWL:
e.	(i) Will proposed bridge replace an existing bridge?	f.	(i) Will proposed bridge replace an existing culvert?  If yes,  (ii) Length of existing culvert:  (iii) Width of existing culvert:  (iv) Height of the top of the existing culvert above the NHW or
	(v) Will all, or a part of, the existing bridge be removed?  (Explain)		NWL:(v) Will all, or a part of, the existing culvert be removed?  (Explain)
g.	Length of proposed bridge: 656	h.	Width of proposed bridge: 24 Clear Road was
i.	Will the proposed bridge affect existing water flow? Yes No If yes, explain:	j.	Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening?   Yes No lf yes, explain:
k.	Navigation clearance underneath proposed bridge:	l.	Have you contacted the U.S. Coast Guard concerning their approval?  ☐Yes ☐No If yes, explain:
			No USCG Permit required.
m.	Will the proposed bridge cross wetlands containing no navigable waters? ☐Yes ☑No If yes, explain:	n.	Height of proposed bridge above wetlands: 13 ft
2.	CULVERTS		This section not applicable
э.	Number of culverts proposed:	b.	Water body in which the culvert is to be placed:

#### < Form continues on back>

C.	Type of culvert (construction material):		
d.	(i) Will proposed culvert replace an existing bridge?    Yes	e.	(i) Will proposed culvert replace an existing culvert?  ☐Yes ☐No  If yes,  (ii) Length of existing culvert(s):  (iii) Width of existing culvert(s):  (iv) Height of the top of the existing culvert above the NHW or NWL:  (v) Will all, or a part of, the existing culvert be removed?  (Explain)
f.	Length of proposed culvert:	g.	Width of proposed culvert:
h.	Height of the top of the proposed culvert above the NHW or NWL.	i.	Depth of culvert to be buried below existing bottom contour.
j.	Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening?	k.	Will the proposed culvert affect existing water flow? YesNo  If yes, explain:
3.	EXCAVATION and FILL		□This section not applicable
a.	(i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL?  If yes,  (ii) Avg. length of area to be excavated:  (iii) Avg. width of area to be excavated:  (iv) Avg. depth of area to be excavated:  (v) Amount of material to be excavated in cubic yards:	b.	(i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.    CW
c.	(i) Will the placement of the proposed bridge or culvert require any high-ground excavation?   If yes,  (ii) Avg. length of area to be excavated:  (iii) Avg. width of area to be excavated:  (iv) Avg. depth of area to be excavated:  (v) Amount of material to be excavated in cubic yards:		

### Form DCM MP-5 (Bridges and Culverts, Page 3 of 4)

d.	If the placement of the bridge or culvert involves any excavation, place if the provided in the placement of the bridge or culvert involves any excavation, placement of the placement of the placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves any excavation, placement of the bridge or culvert involves and the bridge of the bridge or culvert involves and the bridge or culvert involves and the bridge or culvert involves and the bridge of the bridge	ease co	omplete the following:
	(i) Location of the spoil disposal area:		
	<ul> <li>(ii) Dimensions of the spoil disposal area:</li></ul>	es [ '), subr	]No
	(vi) Does the disposal area include any area below the NHW or NWI If yes, give dimensions if different from (ii) above.	L? ? [	∐Yes □No
g.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL?  If yes,  (ii) Avg. length of area to be filled:  (iii) Avg. width of area to be filled:  (iv) Purpose of fill:	t.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.    SAV
4.	GENERAL	Testing a	
a.	Will the proposed project require the relocation of any existing utility lines?	b.	Will the proposed project require the construction of any temporary detour structures? ☐Yes ☐No  If yes, explain:
	approval from local authorities, please attach a copy of the approval or certification.		

< Form continues on back>

\$ <sup>4</sup>	orm DCM MP-5 (Bridges and Culverts, Page 4 of 4)		
C.	Will the proposed project require any work channels?  [Yes No If yes, complete Form DCM-MP-2.]	d.	How will excavated or fill material be kept on site and erosion controlled?  Lise of Std NCDOT BMPs and exposion control Measures, sand bags, sheet piling.
e.	What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?  Chane, heavy highway construction  Equipment	f.	Will wetlands be crossed in transporting equipment to project site?  ☐Yes No  If yes, explain steps that will be taken to avoid or minimize environmental impacts.
].	Will the placement of the proposed bridge or culvert require any shoreline stabilization?  If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.	Paris announ	

Date

Repair NC 12 at Pea Island

Project Name

David 3. Chang

Applicant Name

Applicant Signature